CERTIFICATE OF MAILING (37 CFR 1.8(a)).

IDS/#6 3.26.03

I hereby certify that the attached papers or fee is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231.

May 14, 1999 (Date) Jean C. McQueen (Printed Name)

(Signature)

ZENECA Inc. Docket No. PPD50093/UST



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF: Willem F. BROEKAERT et al.

GROUP ART UNIT: Not Assigned

FILED: June 10, 1998 EXAMINER: Not Assigned

FOR: Antifungal Proteins

SERIAL NO.: 09/077,951

Assistant Commissioner For Patents Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

- (X) In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above-identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, no additional fee is required.
- () In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, therefore:
 - () Certification in Accordance with §1.97(e) is attached.
 - () Please charge the fee of \$240.00 as set forth in §1.17(p) to Deposit Account No. 09-0013.

()	In accordance with §1.97(d), this Inform	mation Disclosure Statement is being filed
	after the mailing date of either a Final A	Action under §1.113 or a Notice of Allowance
	under §1.311 but before the payment of	f the Issue Fee, therefore included are:
	() Certification in Accordance wi	th §1.97(e);
	() Petition Requesting Considerat	ion of the Information Disclosure
	Statement;	
	() Please charge the fee of \$130.0	00 as set forth in §1.17(i)(1) to Deposit
	Account No. 09-0013.	_ · · · · · ·
(V)	Coming of south of the authority of the day	on the attached Forms PTO 1440 and an alread
(X)	•	on the attached Form PTO-1449 are enclosed
	herewith.	
()	In accordance with §1.98(d), copies of	some or all of the references listed on the
•		sed herewith because they were previously
	cited by or submitted to the Patent and	Trademark Office in prior application
		priority under 35 U.S.C. §120 has been made
	in the instant application.	
Please	charge any deficiency or credit any over	payment to Deposit Account No. 09-0013.
This form is su	ubmitted in duplicate.	
		Respectfully submitted,
		ZENECA Ag Products
Dated: May 1	<u>(4, 1999</u>	By: Liza D. Hohenschutz
		Attorney for Applicants Registration No. 33,712
Docket No. P	PD50093/UST	Telephone: 302/886-1699

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INFORMATION DISCLOSURE CITATION BY APPLICANT

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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing If Appro	
			FOREIGN PATENT DOCUMENT	S			
	Document Number	Date	Country	Class	Subclass	<u>Transl</u> Yes I	ation No
	WO93/05153	03/18/93	PCT				
	WO94/16076	07/21/94	PCT				
	ОТН	ER DOCUM	ENTS (Including Author, Title, Date, I	Pertinent Pag	es, Etc.)		
	Elble, R., "A Simpl	e and Efficie	nt Procedure for Transformation o	Yeasts", Bi	ioTechniques	s, BioFeed	back,
	vol. 13, no. 1, pp 1	8-20, 1992.					
	Terras, FRG et al.,	, "Analysis o	f Two Novel Classes of Plant Antifo	ıngal Protei	ns from Radi	ish (<i>Rapha</i>	nus
	sativus L) Seeds",	Journal of E	Biological Chemistry, vol. 267, pp 1	5301-15309	, 1992.		
	Terras, FRG et al.	, "A new fan	nily of basic cysteine-rich plant anti	ungal prote	ins from Bras	ssicaceae :	species"
	FEBS Lett, vol. 31	6, no. 3, pp	233-240, 1993.				
	Terras, FRG et al.,	, "Small Cys	teine-Rich Antifungal Proteins from	Radish: Th	eir Role in H	ost Defens	se", Plan
	Cell, vol. 7, pps 57	3-588, 1995	<u>, </u>				
	Broekaert et al., "F	Plant Defens	ins: Novel Antimicrobial Peptides a	s Compone	nts of the Ho	st Defense	9
	System", Plant Phy	ysiol, vol. 10	8, pp 1353-1358, 1995.	· · · · · · · · · · · · · · · · · · ·			
	Vilas Alves, A.L. e	t al., "Expres	ssion of functional Raphanus sativu	s antifungal	protein in ye	east", FEB	S Lett,
	vol. 348, pp 228-23	32, 1994.	· · · · · · · · · · · · · · · · · · ·				
		Calcium fluxe	es at plasmalemma and tonoplast",	Plant Cell E	Environ, vol.	7, pp 407-4	113,
	1984.						
			ind Plant Development", Ann Rev I				
			ent of intracellular and extracellular			uit cells usi	ng
			des", Plant Cell Environ, vol. 14, pp				
	Bennetzen and Ha	II, "Codon S	election in Yeast", Journal of Biolog	gical Chemi	stry, vol. 257	', no. 6,	
XAMINE	pp 3026-3031, 198	32	DATE CONSIDE	RED			
	-						
			ether or not citation is in conformance			e through c	itation if n
TO/SB/08		red. Include	copy of this form with next communicated Patent a		cant. Office, U.S. De	epartment of (Commerce

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INFORMATION DISCLOSURE CITATION **BY APPLICANT**

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DOCKET NUMBER	APPLICATION NUMBER
PPD50093/UST	Unknown
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	Document Number	Date	FOREIGN PATENT DOCUME Country	Class	Subclass	Trans	lation
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	WO90/13224	11/15/90	PCT				
	WO93/10363	05/27/93	PCT - To a second				
	WO87/03303	06/04/87	РСТ				
	 						
					 		
	1	<u> </u>	<u> </u>		<u> </u>		
	ОТН	ER DOCUM	ENTS (Including Author, Title, Dat	e, Pertinent Pag	es, Etc.)		
	Reichhart, JM et a	I., Invertebra	ate Reproduction and Developm	ent, vol. 21, no	. 1, pp 15-24	, 1992.	
	Sherman, F., "Get	ting Started	with Yeast", Methods in Enzymo	ology, vol. 194,	pp 3-21, 199	91.	
	Ward, A.C., "Single	e step purific	cation of shuttle vectors from year	ast for high fred	uency back	-transform	ation inf
			ch, vol. 18, no. <u>1</u> 7, p 53 <u>19, 19</u> 90		,		
			d quantitative assay for fungal g		" FEMS Mic	robiology	l ett
	vol. 69, pp 55-60,		d quantitative assay for fungar g		, i Livio iviic	noblology	Lou,
	1			1004			
			Lett, vol. 279, no. 1, pp 101-104,				
	Merino et al., "A G	eneral PCR	-Based Method for Single or Cor	nbinatorial Olig	onucleotide-	-Directed	
	Mutagenesis on pl	UC/M13 Ved	tors", BioTechniques, BioFeedb	ack, vol. 12, no	o. 4, pp 508-	510, 1992	<u> </u>
	Osborn, RW et al.,	, "Isolation a	nd characterisation of plant defe	nsins from see	ds of Astera	ceae, Fab	aceae,
		and Saxifra	gaceae", FEBS Letters, vol. 368		-262, 1995.		
XAMINE	R		DATE CONS	IDERED			
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			ether or not citation is in conforman	444 4 1			

June 10, 1998

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INFORMATION DISCLOSURE CITATION BY APPLICANT

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	Document Number	Date	Co	ountry	Class	Subclass	Translation Yes No
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						5(-)	
	Rees, SB et al., "P			Author, Title, Date, F			t al. editors
	Antifungal Agents:						
!	pp 193-200, 1995.	Discovery	<u> </u>				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	al., "Conse	vation of Plant G	enes, Screening V	/aluable Ge	enes from Wi	ld Species of
	Lin, Zhong-ping et al., "Conservation of Plant Genes, Screening Valuable Genes from Wild Species of Plants", in R.P. Adams and J.E. Adams, editors, Conservation of Plant Genes, Academic Press, San Diego,						
	California, pp 241-246, 1992.						
1	Cornelissen, BJC	et al., "Strate	egies for Control	of Fungal Disease	s with Tran	sgenic Plant	s", Plant Physiolog
	vol. 101, pp 709-712, 1993.						
	Broekaert, WF et al., "Antifungal Proteins and Their Application in the Molecular Breeding of Disease-Resistant Plants", ACTA Horticulturae, no. 355, pp 209-211, 1994.						
	De Samblanx, GW	-				ased on the	Rs-AFP2
	(Raphanus sativus						
	De Samblanx GW						
	Two Adjacent Sites						
	pp 1171-1179, 199	97.		DATE CONSIDE	· ·		
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